

# Production of Monofilaments from Polylactide Melt: Structure, Properties, and Biocompatibility

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## Abstract

© 2017 Springer Science+Business Media New York Monofilaments based on polylactide (PLA) were produced under laboratory conditions by the melt technique. It was established that the developed materials meet the strength requirements of the standard GOST 31620-2012. On the basis of in vitro and in vivo tests it was shown that the surface of the materials is suitable for proliferation of the fibroblasts of human skin, and the obtained PLA monofilaments are suture materials with a long resorption period and are recommended for use in cases where continuing support of fabrics is required.

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